#### PATENT COOPERATION TREATY

#### **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference C39177PC	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/EP2004/000247	International filing date (day/month/year) 15 January 2004 (15.01.2004)	Priority date (day/month/year) 15 January 2003 (15.01.2003) ]			
International Patent Classification (IPC) or national classification and IPC <sup>7</sup> A61K 31/198, 31/401, 31/435, A61P 7/02, 9/00, 9/02, 9/10, 37/00, 37/08, 43/00					
Applicant CURACYTE CHEMISTRY GMBH					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).					
2.	This REPORT consists of a total of 11 sheets, including this cover sheet.					
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.				
3.	This report contains indications	relating to the following items:				
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				

	Date of issuance of this report 02 September 2005 (02.09.2005)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Agnes Wittmann-Regis
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Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

Translation From the INTERNATIONAL SEARCHING AUTHORITY PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing See form PCT/ISA/210 (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below C39177PC International filing date (day/month/year) Priority date (day/month/year) International application No. 15-01-2003 PCT/EP2004/000247 15-01-2004 International Patent Classification (IPC) or both national classification and IPC A61K 31/198, 31/401, 31/435, A61P 7/02, 9/00, 9/02, 9/10, 37/00, 37/08, 43/00 Applicant CURACYTE CHEMISTRY GMBH This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Certain observations on the international application Box No. VIII FURTHER ACTION 2. If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Date of completion of this opinion Name and mailing address of the ISA/EP Telephone No. Facsimile No.

Bo	x No. I	Basis of the report	
1.	With	regard to the language, this opinion has been established on the basis of:	
		the international application in the language in which it was filed	
		the translation of the international application into translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).	, which is the language of a
2.	With inve	n regard to any nucleotide and/or amino acid sequence disclosed in the international application nation, this opinion has been established on the basis of:	and necessary to the claimed
	a.	type of material	
		a sequence listing	
		table(s) related to the sequence listing	
	b.	format of material	
		on paper	
		in electronic form	
	c.	time of filing/furnishing	
		contained in the international application as filed	
		filed together with the international application in electronic form	
		furnished subsequently to this Authority for the purposes of search	
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) refurnished, the required statements that the information in the subsequent or additional copies is identified or does not go beyond the application as filed, as appropriate, were furnished.	plating thereto has been filed or tical to that in the application as
4.	Ade	ditional comments:	
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Во	x No. II	Priority
1.		The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3.	Add	itional observations, if necessary:

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
Claims, Nos. 1-26, 34-36
because:
the said international application, or said claims Nos.
relate to the following subject matter which does not require an international search (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nos.
are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos are so inadequately supported
by the description that no meaningful opinion could be formed (specify):
no international search report has been established for said claims Nos. 1-26, 34-36
a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

Во	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N) Claims	YES	
	Claims 8-33, 37-45	NO	
	Inventive step (IS) Claims	YES	
	Claims 8-33, 37-45	NO	
	Industrial applicability (IA) Claims	YES	
	Claims 8-26		
2.	Citations and explanations:		
2.	3. The following documents are cited:		
	D1: WO 02/062829 A (HARAMURA MASAYUKI; KOGA TAKAKI		
	(JP); SATO HARUHIKO (JP); KADONO SHOJI) 15		
	August 2002 (2002-08-15)		
	D2: WO 02/14349 A (LEVY ODILE ESTHER; WEINHOUSE		
	MICHAEL I (US); CORVAS INT INC (US); MAD) 21		
	February 2002 (2002-02-21)		
	D3: KÜNZEL, S; SCHWEINITZ, A; REISSMANN, S;		
	STUERZEBECHER, J; STEINMETZER, T: "4-		
	Amidinobenzylamine-Based Inhibitors of		
	Urokinase" BIOORGANIC & MEDICINAL CHEMISTRY		
	LETTERS, OXFORD, GB, Vol. 12, 2002, pages 645-		
	648, XP002193207 ISSN: 0960-894X		
	D4: WO 03/076391 A (SCHWEINITZ ANDREA; STEINMETZER		
	TORSTEN (DE); STUERZEBECHER JOERG (DE)) 18		
	September 2003 (2003-09-18)		
	D5: WO 03/076457 A (SCHWEINITZ ANDREA; STEINMETZER		
	TORSTEN (DE); STUERZEBECHER JOERG (DE)) 18		
	September 2003 (2003-09-18)		
	D6: DE 102 12 555 A (TECH UNI MUENCHEN; UNIV		
	SCHILLER JENA (DE)) 25 September 2003 (2003-09-		
	25)		
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- D7: STUERZEBECHER, J; PRASA, D; WIKSTROEM, P;

  VIEWEG, H: "Novel plasma kallikrein inhibitors

  of the benzamidine type" BRAZILIAN J MED BIOL

  RES, Vol. 27, 1994, pages 1929-1934,

  XP009030092
- 4. The compounds claimed in the present application are known as medicaments from D1-D3 (cf. the passages indicated in the search report). Therefore, only a second medical application would be admissible.
- 5. A main claim restricted to the second medical application of the compounds as per claim 8 for treating the medical conditions indicated in claims 27 and 28 would not be considered novel.

D1 describes the inhibiting of factor VIIa, according to which the compounds can be used as anticoagulants. See page 2, lines 5-17; claim 14.

Attention is drawn in this respect to the fact that the mechanism of action is not considered at all.

6. The PCT Contracting States do not contain uniform criteria for assessing the industrial applicability of claims 8-26 in their present form. Patentability may also depend on the wording of the claims. The EPO, for example, does not recognise the industrial applicability of claims to the medical use of a compound; it may, however, allow claims to the first medical application of a known compound or to the use of such a compound in the manufacture of a drug

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	for	a	new	medical	application.
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Box	No. VI	Certain documents cited			
1. Certain published documents (Rule 43bis.1 and 70.10)					
		Application No.  Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
		Patent No.	(day/monin/year)	(aug/moisins/cur)	
2.	Non-writte	en disclosures (Rule 43bis.1 and 70.9)			
		Kind of non-written disclosure	Date of non-written disc (day/month/year)	losure D	eate of written disclosure ing to non-written disclosure (day/month/year)
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		,			
7	. D4	-D6 are cited pursu	uant to PCT Ru	ıles 64.3 ar	nd 70.10.

International application No. PCT/EP2004/000247

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims	, description,	, and drawings or on the	e question	whether	the claims ar	e fully	supported by
the description, are made:							

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported the description, are made:			
8. The objections raised in the search report concerning			
clarity/support of claims 1-7 and 34-36 are upheld			
pursuant to PCT Articles 5 and 6 and Rule 6.			

International application No.
PCT/EP2004/000247

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: III

- 1. The present application was only searched in part.

  Pursuant to PCT Rule 66.1(e), only the searched

  portion is examined, namely claims 8-33 (in part) and

  37-45 (in part) cf. form PCT/ISA/201.
- 2. Claims 8-26 relate to subject matter which, in the opinion of this Authority, is covered by PCT Rule 67.1(iv). A report is therefore not established into the industrial applicability of the subject matter of these claims (PCT Article 34(4)(a)(i)).